
INTERNATIONAL STANDARD



2696

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION · МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ · ORGANISATION INTERNATIONALE DE NORMALISATION

Fibre building boards — Hard and medium boards for general purposes — Quality specifications — Water absorption and swelling in thickness

Panneaux de fibres — Panneaux durs et mi-durs pour utilisation générale — Spécifications de qualité — Absorption d'eau et gonflement en épaisseur

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[ISO 2696:1976](#)

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UDC 674.817-41

Ref. No. ISO 2696-1976 (E)

Descriptors : building boards, fibre boards, materials specifications, tests, determination, absorbed water, swelling.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2696 was drawn up by Technical Committee ISO/TC 89, *Fibre building boards*, and circulated to the Member Bodies in May 1972.

It has been approved by the Member Bodies of the following countries :

Australia	Iran	South Africa, Rep. of
Austria	Ireland	Spain
Belgium	Italy	Sweden
Canada	Netherlands	Switzerland
Czechoslovakia	New Zealand	Turkey
Egypt, Arab Rep. of	Norway	United Kingdom
Germany	Pakistan	U.R.S.S.
Hungary	Poland	
India	Romania	

The Member Body of the following country expressed disapproval of the document on technical grounds :

France

Fibre building boards – Hard and medium boards for general purposes – Quality specifications – Water absorption and swelling in thickness

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1 SCOPE

This International Standard specifies the maximum values of water absorption and of swelling in thickness after immersion in water of hard and medium fibre building boards, as defined in ISO 818, sub-clause 2.1 and clause 3.

2 FIELD OF APPLICATION

This International Standard applies to hard and medium fibre building boards for general purposes. It does not apply to hard and medium fibre building boards for special purposes as defined in sub-clause 2.2 of ISO 818.¹⁾

3 REFERENCES

ISO 769, *Fibre building boards – Hard and medium boards – Determination of water absorption and of swelling in thickness after immersion in water.*

ISO 818, *Fibre building boards – Definition – Classification.*

ISO . . . , *Fibre building boards – Sampling, cutting and inspection.*²⁾

4 SAMPLING

Sampling shall be carried out in accordance with ISO
<https://standards.iteh.ai/catalog/standards/sist/293c705f-1f82-4906-bb6d-f02218-iso-2696-1976>

5 WATER ABSORPTION AND SWELLING IN THICKNESS

Water absorption and swelling in thickness, determined, calculated and expressed according to ISO 769, shall not exceed the values stated in the table.

Type	Nominal thickness	Immersion time 24 h ± 15 min	
	mm	Maximum water absorption,%	Maximum swelling in thickness, %
Hard boards	≤ 3,5	40	30
	> 3,5	30	20
Medium boards		40	20

1) This International Standard, however, may be applied to certain categories of fibre building boards for special purposes as well, on the basis of a mutual agreement between buyer and supplier.

2) In preparation.

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